

Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

1. Product and Company Identification

Product Name	: Reactive Dye 3 Ink Black
Product Code	: SPC-0357K-B
General Use	: Ink jet printing ink
Product Description	: Reactive Dye Ink
MSDS Number	: 031-38W04KC
Manufacture	
Company Name	: Mimaki Engineering Co., Ltd
Address	: 2182-3 Otsu, Shigeno, Tomi-shi, Nagano 389-0512 Japan
Telephone No.	: +81-268-64-2413
Importer/Distributor Established in USA	
Company Name	: MIMAKI USA. INC.
Address	: 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A
Telephone No.	: 1-678-730-0100
Emergency Telephone No.	: +81-268-64-2413

2. Hazards Identification

Emergency Overview	: Black liquid. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water. Keep out of reach of children.
Potential Health Effects	
Inhalation	: Intentional exposure to ink vapors may cause respiratory irritation.
Eye Contact	: Ink contact with eye may be mildly irritating.
Skin Contact	: Ink contact with skin may cause irritation, swelling, or redness.
Ingestion	: May cause upset stomach.
Carcinogens	: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.
Potential Environmental Effects	: Not available.

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3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.
1	Colorants	15-20	Trade secret
2	Proprietary organic materials	20-25	Trade secret
3	2-(2-Butoxyethoxy)ethanol	1-5	112-34-5
4	Water	<60	7732-18-5

4. First Aid Measures

4.1. Description of first aid measures

- Inhalation : Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen. Seek immediate medical attention.
- Eye Contact : Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.
- Skin Contact : Wash surface areas with soap and water. Wash soiled clothing before wearing again. Consult a physician if irritation continues.
- Ingestion : Seek medical advice; and attention if stomach continues to be upset.

4.2. Most important symptoms and effects, both acute and delayed:

Skin: Ink contact with skin may cause irritation, swelling or redness.

4.3. Indication of any immediate medical attention and special treatment needed: Not necessary

5. Fire Fighting Measures

5.1. Extinguishing Media

5.1.1. Suitable extinguishing media: Dry chemical, carbon dioxide or water.

5.1.2. Unsuitable extinguishing media: None

5.2. Special hazards arising from the substance or mixture: None

5.3. Advice for firefighters: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

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6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel: Eye or skin protection required during clean-up. Use proper ventilation.

6.1.2. For emergency responders: None

6.2. Environmental precautions: Do not release to sewer, surface-or ground-water.

6.3. Methods and material for containment and cleaning up

6.3.1. Advice on how to contain a spill: Use sponges to wipe-up ink.

6.3.2. Advice how to clean-up a spill: Rinse area with damp cloth. Place waste in closed container for disposal. Wash hands with soap and water.

6.3.3. Any other information: Do not dispose of waste to the sewer.

6.4. Reference to other sections: None

7. Handling And Storage

7.1. Precautions for safe handling

7.1.1. Recommendations: Keep out of reach of children and do not drink ink. Do not dismantle cartridge.

7.1.2. Advice on general occupational hygiene: Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water.

7.2. Conditions for safe storage, including any incompatibilities:

Do not store the cartridge in high or freezing temperatures. Keep the cartridge out of direct sunlight. Do not store the cartridge with oxidizing agents or explosives. Make sure the cartridge stored in a dry area.

7.3. Specific end use(s): Not specified

8. Exposure Controls / Personal Protection

Exposure Controls

8.1. Appropriate engineering controls : Proper ventilation, in prevention

8.2. Individual protection measures, such as personal protective equipment

8.2.1. Use of personal protective equipment : Not required under suitable use as setting the cartridge on the printer.

8.2.2. Hand protection : Not required under suitable use as setting the cartridge on the

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printer.

8.2.3. Eye protection : Not required under suitable use as setting the cartridge on the printer.

8.2.4. Skin protection : Not required under suitable use as setting the cartridge on the printer.

8.3.Environmental exposure control : Not established

9. Physical And Chemical Properties

Appearance	- Physical state	: liquid
	- Colour	: Black
Odour		: Slightly
pH		: 8.0~9.0 at 25°C
Boiling Point / Boiling Range		: Not data available
Melting Point / Merging Range		: -17°C
Flash Point		: Does not flash
Flammability(solid, gas)		: Not applicable
Specific Gravity		: 1.00~1.10
Solubility		: Mixable
Viscosity		: Less than 5mPa.s(25 degree C)

10. Stability And Reactivity

- 10.1. Reactivity: Stable under normal temperature
- 10.2. Chemical stability: Stable under normal temperature
- 10.3. Possibility of hazardous reactions: None
- 10.4. Conditions to avoid: High and freezing temperatures
- 10.5. Incompatible materials: Oxidizers and explosives
- 10.6. Hazardous decomposition products: No data available

11. Toxicological Information

Acute toxicity: Not meet the criteria for classification according to EU Directive 1999/45/EC

Irritation Eye: Not meet the criteria for classification according to EU Directive 1999/45/EC

Skin: Not meet the criteria for classification according to EU Directive 1999/45/EC

Corrosivity: Not meet the criteria for classification according to EU Directive 1999/45/EC

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Sensitisation Skin: Dyes in the ink were shown to be skin sensitizing by OECD 406

Carcinogenicity: Not contain any substances listed in IARC Monographs(1,2A and 2B)

Mutagenicity: Not meet the criteria for classification according to EU Directive 1999/45/EC

Toxicity for reproduction: Not meet the criteria for classification according to EU Directive 1999/45/EC

12. Ecological Information

- 12.1. Toxicity: No data available
- 12.2. Persistence and degradability: No data available
- 12.3. Bioaccumulative potential: No data available
- 12.4. Mobility in soil: No data available
- 12.5. Results of PBT and vPvB assessment: Has not carried out PBT and vPvB assessment
- 12.6. Other adverse effects: No data available

13. Disposal Considerations

13.1 Waste treatment methods: Disposal should be in accordance with federal, state, and local requirements.

14. Transport Information

- 14.1. UN number : Not applicable
- 14.2. UN proper shipping name : Not applicable
- 14.3. Transport hazard class(es) : Not applicable
- 14.4. Packing group : Not applicable
- 14.5. Environmental hazards : Not applicable
- 14.6. Special precautions for user : Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :
Not applicable

15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



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TSCA Section 4(a) Final Test Rules Regulation: Not regulated

TSCA Section 5 Significant New Use Rule Regulation: Not regulated

TSCA Section 8(a) Preliminary Assessment Information Rule(PAIR): Not regulated

TSCA Section 12(b) One-Time Export Notification Regulated: Not regulated

California Proposition 65: Not regulated

15.2. Chemical safety assessment: This ink has not carried out any Chemical Safety Assessment yet.

16. Other Information

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

It relates only to the specific material designated herein, and dose not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.

Revision history

Version	Date	Content
1.0	13-Nov-12	First issue.